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1   Mostly C, challenges in LEGO® RCX code generation

Robert P. Cook
March 2006   ACM-SE 44: Proceedings of the 44th annual Southeast regional conference
Publisher: ACM

Full text available: pdf(145.94 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we describe the challenges of generating code for the LEGO® RCX microcomputer controller. The compiler improves on the widely used NQC (not-quite C) compiler with the addition of new data types, procedures, unions, and a math library.

Keywords: C compiler, LEGO® RCX

2 Dynamic test input generation for database applications

Michael Emmi, Rupak Majumdar, Koushik Sen
July   I SSTA '07: Proceedings of the 2007 international symposium on Software
2007   testing and analysis
Publisher: ACM

Full text available: pdf(219.99 KB)

Additional Information: full citation, abstract, references, index terms

We describe an algorithm for automatic test input generation for database applications. Given a program in an imperative language that interacts with a database through API calls, our algorithm generates both input data for the program as well as suitable ...

Keywords: automatic test generation, concolic testing, database applications, directed random testing

3 Multigrain parallel Delaunay Mesh generation: challenges and opportunities for multithreaded architectures

Christos D. Antonopoulos, Xiaoning Ding, Andrey Chernikov, Filip Blagojevic, Dimitrios S. Nikolopoulos, Nikos Chrisochoides
June   I CS '05: Proceedings of the 19th annual international conference on
2005   Supercomputing
Publisher: ACM

Full text available: pdf(430.43 KB)

Additional Information: full citation, abstract, references

Given the importance of parallel mesh generation in large-scale scientific applications and the proliferation of multilevel SMT-based architectures, it is imperative to obtain insight on the interaction between meshing algorithms and these systems. We ...

4 Case studies on fault detection effectiveness of model based test generation techniques

Amit Paradkar
May   A-MOST '05: Proceedings of the 1st international workshop on Advances in
2005   model-based testing
Publisher: ACM

Full text available: pdf(94.82 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Model-based test generation (MBTG) is becoming an area of active research. These techniques differ in terms of (1) modeling notations used, and (2) the adequacy criteria used for test generation. This paper (1) reviews different classes of MBTG techniques ...

5 Model generation of test logic for macrocell based designs

E. de la Torre, J. Calvo, J. Uceda
September 1996   EURO-DAC '96/ EURO-VHDL '96: Proceedings of the conference on European design automation
Publisher: IEEE Computer Society Press

Full text available: pdf(78.63 KB)   Additional Information: full citation, references, index terms

6 A framework for automatic generation of evolvable e-commerce workplaces using business processes

Ying Zou, Qi Zhang
May 2006   ICSE '06: Proceeding of the 28th international conference on Software engineering
Publisher: ACM

Full text available: pdf(176.80 KB)   Additional Information: full citation, abstract, references, index terms

Business processes encapsulate the knowledge of operations and services provided by organizations. Due to the changing nature of business processes, the design and implementation of e-commerce applications, such as workplace applications, could not be ...

Keywords: business process, e-commerce applications, software engineering, software evolution, user interface design

7 Using web helper agent profiles in query generation

Gabriel L. Somlo, Adele E. Howe
July 2003   AAMAS '03: Proceedings of the second international joint conference on Autonomous agents and multiagent systems
Publisher: ACM

Full text available: pdf(154.84 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Personalized information agents can help overcome some of the limitations of communal Web information sources such as portals and search engines. Two important components of these agents are: user profiles and information filtering or gathering services. ...

Keywords: information agents, query generation, user modeling

8 An automated technique for topology and route generation of application specific on-chip interconnection networks

K. Srinivasan, K. S. Chatha, G. Konjevod
May   ICCAD '05: Proceedings of the 2005 IEEE/ACM International conference on
2005   Computer-aided design
Publisher: IEEE Computer Society

Full text available: pdf(235.14 KB)   Additional Information: full citation, abstract, references, cited by

Network-on-chip (NoC) has been proposed as a solution to the communication challenges of system-on-chip (SoC) design in nanoscale technologies. Application specific SoC design offers the opportunity for incorporating custom NoC architectures that are ...

9 The impact of input domain reduction on search-based test data generation

Mark Harman, Youssef Hassoun, Kiran Lakhotia, Phil McMinn, Joachim Wegener
September   ESEC-FSE '07: Proceedings of the the 6th joint meeting of the European
2007   software engineering conference and the ACM SIGSOFT symposium on
                The foundations of software engineering
Publisher: ACM

Full text available: pdf(502.57 KB)   Additional Information: full citation, abstract, references, index terms

There has recently been a great deal of interest in search-based test data generation, with many local and global search algorithms being proposed. However, to date, there has been no investigation ofthe relationship between the size of the input domain ...

Keywords: automated test data generation, evolutionary testing, genetic algorithms, hill climbing, input domain reduction, search space reduction

10 Efficient runtime generation of association rules

Richard Relue, Xindong Wu, Hao Huang
October   CIKM '01: Proceedings of the tenth international conference on Information
2001   and knowledge management
Publisher: ACM

Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Mining frequent patterns in transaction databases has been a popular subject in data mining research. Common activities include finding patterns in database transactions, times-series, and exceptions. The Apriori algorithm is a widely accepted method ...

11 A comparative analysis of two concepts in the generation of uniform pseudo-random numbers

George C. Canavos
January
1967
Proceedings of the 1967 22nd national conference
Publisher: ACM

Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, cited by, index terms

In recent years, considerable attention has been given to find reliable methods capable of producing, within a digital computer, pseudo-random numbers obeying the uniform distribution on the unit interval. Apparently, the most popular method has been ...

12 Simulation-based automatic generation of signomial and posynomial performance models for analog integrated circuit sizing

Walter Daems, Georges Gielen, Willy Sansen
November
2001
ICCAD '01: Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design
Publisher: IEEE Press

Full text available: pdf(163.89 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper presents a method to automatically generate posynomial response surface models for the performance parameters of analog integrated circuits. The posynomial models enable the use of efficient geometric programming techniques for circuit sizing ...

Keywords: analog circuit modeling, design of experiments, geometric programming, posynomial and signomial response surface modeling

13 Simplifying parser generation

Gabriel J. Ferrer
May
2007
Journal of Computing Sciences in Colleges,   Volume 22 Issue 5
Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(128.80 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes Squirrel, a parser generator that uses a modification of the Packrat algorithm [7]. Squirrel is designed to avoid many of the complexities often associated with parser generators. Students in a CS3 course were able to learn to use ...

14 Feedback-Directed Random Test Generation

Carlos Pacheco, Shuvendu K. Lahiri, Michael D. Ernst, Thomas Ball
May ICSE '07: Proceedings of the 29th International Conference on Software
2007 Engineering
Publisher: IEEE Computer Society

Full text available: pdf(275.21 KB) Additional Information: full citation, abstract, references, cited by, index terms

We present a technique that improves random test generation by incorporating feedback obtained from executing test inputs as they are created. Our technique builds inputs incrementally by randomly selecting a method call to apply and finding arguments ...

15 Integrating automated test generation into the WYSIWYT spreadsheet testing methodology

Marc Fisher, II, Gregg Rothermel, Darren Brown, Mingming Cao, Curtis Cook, Margaret
Burnett
April ACM Transactions on Software Engineering and Methodology (TOSEM),
2006 Volume 15 Issue 2
Publisher: ACM

Full text available: pdf(1.94 MB) Additional Information: full citation, abstract, references, index terms

Spreadsheet languages, which include commercial spreadsheets and various research systems, have had a substantial impact on end-user computing. Research shows, however, that spreadsheets often contain faults. Thus, in previous work we presented a methodology ...

Keywords: End-user software engineering, end-user programming, test case generation, testing

16 Exploiting conditional instructions in code generation for embedded VLIW processors

Rainer Leupers
January DATE '99: Proceedings of the conference on Design, automation and test in
1999 Europe
Publisher: ACM

Full text available: pdf(83.99 KB) Additional Information: full citation, references, cited by, index terms

17 The Generation Gap

Brian Marshall
April 2000   Linux Journal, Volume 2000 Issue 72es
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(15.29 KB)   Additional Information: full citation, abstract, references, index terms

This paper examines the issues involved with the use of open-source software components in closed-source applications.

18 Automatic generation of program specifications

Jeremy W. Nimmer, Michael D. Ernst
July 2002   ISSTA '02: Proceedings of the 2002 ACM SIGSOFT international symposium on Software testing and analysis
Publisher: ACM
Full text available: pdf(154.41 KB)   Additional Information: full citation, abstract, references, cited by

Producing specifications by dynamic (runtime) analysis of program executions is potentially unsound, because the analyzed executions may not fully characterize all possible executions of the program. In practice, how accurate are the results of a dynamic ...

19 Self-configuring network traffic generation

Joel Sommers, Paul Barford
October 2004   IMC '04: Proceedings of the 4th ACM SIGCOMM conference on Internet measurement
Publisher: ACM
Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references, cited by, index terms

The ability to generate repeatable, realistic network traffic is critical in both simulation and testbed environments. Traffic generation capabilities to date have been limited to either simple sequenced packet streams typically aimed at throughput testing, ...

Keywords: network flows, traffic generation

20 Systematic topology analysis and generation using degree correlations

Priya Mahadevan, Dmitri Krioukov, Kevin Fall, Amin Vahdat
August   ACM SIGCOMM Computer Communication Review,   Volume 36 Issue 4
2006
Publisher: ACM

Full text available: pdf(723.00   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Researchers have proposed a variety of metrics to measure important graph
properties, for instance, in social, biological, and computer networks. Values for a
particular graph metric may capture a graph's resilience to failure or its routing
efficiency. ...

Keywords: degree correlations, network topology

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